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Subst. Form PTO-1449	Atty. Docket No.: 22727/04060	Serial No.: 09/591,432
APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant: McDonald, et al.	
	Filing Date: June 9, 2000	Group: 1638 2621

U.S. PATENT DOCUMENTS

Initial*		Document No.	Date	Name	Class	Subcl.	Filing Date
<i>ym</i>	AA	5,901,237	May 4, 1999	Conrad	782	110	Aug. 12, 1997
<i>ym</i>	AB	5,864,984	February 2, 1999	McNertney	47	1,01	Jun. 19, 1995
	AC						
	AD						

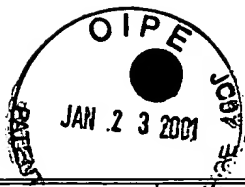
FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subcl.	Translation?
	AE						
	AF						
	AG						
	AH						
	AI						

OTHER PRIOR ART

<i>ym</i>	AJ	"Face Recognition Using Eigenfaces" by Turk, et al., IEEE, pp.586-591.					
<i>ym</i>	AK	"On Generalized Distance Transformation of Digitized Pictures" by Yokoi, et al., IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. PAMI=3, No. 4, July 1981, pp. 424-443.					
<i>ym</i>	AL	"A Transformation for Extracting New Descriptors of Shape" by Blum, pp. 362-380.					
<i>ym</i>	AM	"Linear Skeletons from Square Cupboards" by Hilditch, Pattern Recognition, pp. 403-420.					
<i>ym</i>	AN	"Thinning Algorithms on Rectangular, Hexagonal, and Triangular Arrays" by Deutsch, Scientific Applications, Vol. 15, No. 9, pp. 827-837.					
<i>ym</i>	AO	"Optimization by Simulated Annealing" by Kirkpatrick, et al., Science, Vol. 220, No. 4598, May 13, 1983, pp. 671-680.					
<i>ym</i>	AP	"A Note on Two Problems in Connexion with Graphs" by Dijkstra, Numerische Mathematik, 1, 269-271 (1959).					
<i>ym</i>	AQ	"A Computer Vision Method for Determining Length of Cheese Shreds" by Ni, et al., Artificial Intelligence Review, 12: 27-37, 1998.					
<i>ym</i>	AR	"Iterative Improvement Algorithms" pp. 111-114.					
<i>ym</i>	AS	"Embryo Elongation and Germination Rates as Sensitive Indicators of Lettuce Seed Quality: Priming and Aging Studies" by Hacisalihoglu, et al., HortScience, 34(7): 1240-1243, 1999.					
Examiner: <i>Stephen J. Miller</i>				Date Considered: 4-7-01			

*EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP 609; draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.



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	AE						
	AF						
	AG						
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OTHER PRIOR ART

<i>ym</i>	AJ	"A determination of the seed vigour and field performance of crisp lettuce seedstocks" by Wurr, et al., <u>Seed Sci. & Technol.</u> , 13: 11-17, 1985.
<i>ym</i>	AK	"A computer based system for the recognition of seed shape" by Travis, et al., <u>Seed Sci. & Technol.</u> , 13: 813-820, 1985.
<i>ym</i>	AL	"Probit Analysis: A Computer Program for Evaluation of Seed Germination and Viability Loss Rate"
<i>ym</i>	AM	"Viability Testing and Characterization of Germination of Fungal Spores by Automatic Image Analysis" by Paul, et al., <u>Biotechnology and Bioengineering</u> , Vol. 42, No. 1, pp. 11-23, June 5, 1993.
<i>ym</i>	AN	"Automated Seedling Length Measurement for Germination/Vigor Estimation Using a Casas (Computerized Automated Seed Analysis System" by Keys, et al., <u>Journal of Seed Technology</u> , Vol. 9, No. 1, p. 40-53, 1984.
<i>ym</i>	AO	"Measuring Root Surface Area and Mean Root Diameter of Peach Seedlings by Digital Image Analysis" by Tagliavini, et al., <u>HortScience</u> , 28(11):1129-1130, 1993.
<i>ym</i>	AP	"Automated image analyses for separating plant roots from soil debris elurated from soil cores" by Dowdy, et al. <u>Plant and Soil</u> , 200:91-94, 1998.
<i>ym</i>	AQ	"Quantification of the Length and Diameter of Root Segments with Public Domain Software" by Dowdy, et al., <u>Commun. Soil Sci. Plant Anal.</u> , 26(3&4), 459-468 (1995).
<i>ym</i>	AR	"Automated vigour testing of field vegetables using image analysis" by McCormack, et al., <u>Seed Sci. & Technol.</u> , 18, 103-112, 1990.
<i>ym</i>	AS	"NIH Image: A Public Domain Image Processing Program for the Macintosh" by Rasband, et al., <u>Microbeam Analysis</u> , 4 (1995) 137-149.
<i>ym</i>	AT	"Easily Accessible Method for Root Length Measurement Using an Image Analysis System" by Tanaka, et al., <u>Jpn. J. Crop Sci.</u> , 64(1): 144-147 (1995).

Examiner: *[Signature]* Date Considered: 9-8-03

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Filing Date: June 9, 2000

Group: 1638 2621

U.S. PATENT DOCUMENTS

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Initial*		Document No.	Date	Name	Class	Subcl.	Filing Date
ym	AA	3,852,914	December 10, 1974	Levengood	58		Sept. 1, 1972
ym	AB	5,073,503	December 17, 1991	Mee	58		Jul. 12, 1989
	AC						
	AD						

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		Document No.	Date	Country	Class	Subcl.	Translation?
	AE						
	AF						
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	AH						
	AI						

OTHER PRIOR ART

ym	AJ	Advertisement: "Ball Vigor Index" Ball Seed Co., Circle Card No. 442.
ym	AK	Advertisement: "... So, how many usable seedlings will you have?" Ball Seed Co., Circle Card No. 357, April 1995.
ym	AL	"New computer imaging system rates seed vigor" <u>Grower Talks</u> , December 1994, p. 12.
ym	AM	"Seedlot Vigor Characteristics of 20 <i>impatiens</i> Seedlots" Paradigm Research Corp., March 27, 1995.
ym	AN	"A modified slant board test for vigour testing brassicas" by McCormack, et al., <u>Plant Varieties and Seeds</u> , (1990), 81-87.
ym	AO	"Laboratory Vigor Tests Used to Predict Pepper Seedling Field Emergence Performance" by Trawatha, et al., <u>Crop Sci.</u> , 30:713-717 (1990).
ym	AP	Letter to Ron Wagner from Dave McNertney at Paradigm Research Corp. regarding sample of test results from the Paradigm seedlot vigor test system dated March 27, 1995.
ym	AQ	"Visualizing the Future: The Paradigm Seedlot Vigor Assessment System" Presented to the International Society for Horticultural Science, May 16, 1999 by Dave McNertney, Paradigm Research Corp.
ym	AR	"Seedlot Vigor Characteristics of 20 <i>impatiens</i> Seedlots" Paradigm Research Corp., March 13, 1995.
	AS	

Examiner: *Agnes F. Miller*

Date Considered: 4-8-03

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